

# [APPARATUS AND METHOD FOR PURIFYING AIR USED IN CRYOGENIC AIR SEPARATION]

## Abstract of Disclosure

An apparatus and a method for purifying the air used in cryogenic air separation are described, which are capable of effectively removing nitrogen oxides and/or hydrocarbons. The apparatus comprises an adsorber comprising an adsorption cylinder that has a first adsorbing layer and a second adsorbing layer therein. The first adsorbing layer is composed of a first adsorbent capable of selectively adsorbing water in the air. The second adsorbing layer is composed of a second adsorbent capable of selectively adsorbing nitrogen oxide and/or hydrocarbon in the air passing the first adsorbing layer, wherein the second adsorbent comprises an X zeolite containing magnesium ion as an ion-exchangeable cation.

## Figures